

Attorney Docket No. 03777/LH

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**IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE**

Date of Deposit: December 31, 2003

Applicant(s): T. HAKAKAWA

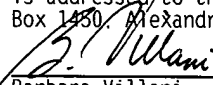
Serial No. : Not yet assigned

Filed : Herewith

For : INK JET RECORDING
APPARATUS

Art Unit :
Examiner :

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.110 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450


Barbara Villani

In the event that this Paper is late filed, and the necessary petition for extension of time is not filed concurrently herewith, please consider this as a Petition for the requisite extension of time, and to the extent not tendered by check attached hereto, authorization to charge the extension fee, or any other fee required in connection with this Paper to Account No. 06-1378.

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450,
Alexandria, VA 22313-1450

S I R :

It is respectfully requested that the documents listed on the attached form PTO/SB/08A be considered and made of record.

The U.S. Patent Documents identified on said form PTO/SB/08A are not enclosed herewith since the USPTO waived the requirement to file copies of U.S. Patents and U.S. Patent Application Publications for U.S. Patent Applications filed after June 30, 2003. (See 1276 OG 55 (05 August 2003)).

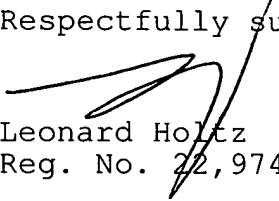
The U.S. Patent Documents are identified on pages 2, 4 and 5 of the present specification.

DISCUSSION

USP No. 5,828,395 - A filter in a slanted state to an ink flow direction is provided in an ink guide channel such that the flow speed and negative pressure of ink flowing along the filter surface increase from the upstream toward the downstream of the filter, and on the other hand, the flow speed and negative pressure of the ink change inversely on the side of a filter surface 21B. Bubbles which occur upon ink supply to an inkjet head are quickly moved downward along the filter surface. At the same time, the ink is passed through the filter and guided to a second ink guide channel.

US2002/12034A1 - The flow direction of the ink passing through the filter is along the gravitational direction, and the filter is set at an angle of 30° to 60° to the horizontal direction.

Respectfully submitted,



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PTO/SB/08A (08-00)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number		
				Filing Date		Herewith
				First Named Inventor		HARAKAWA
				Group Art Unit		
				Examiner Name		
Sheet	1	of	1	Attorney Docket Number		03777/LH

U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No ¹	Document Number	Kind Code ²	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		5,828,395	A	Takata	10-27-1998	
		2002/0012034	A1	Saikawa	01-31-2002	

FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No ¹	offc ³	Document Number ⁴	Kind Code ⁵	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T ⁶

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Place a check here if English translation is attached.

DATE MAILED: **December 31, 2003**